BAYEV, V., dotsent; AVRAMOV, A., assistent; BOZADZHIYEVA, Ye., assistent (Sofiya)

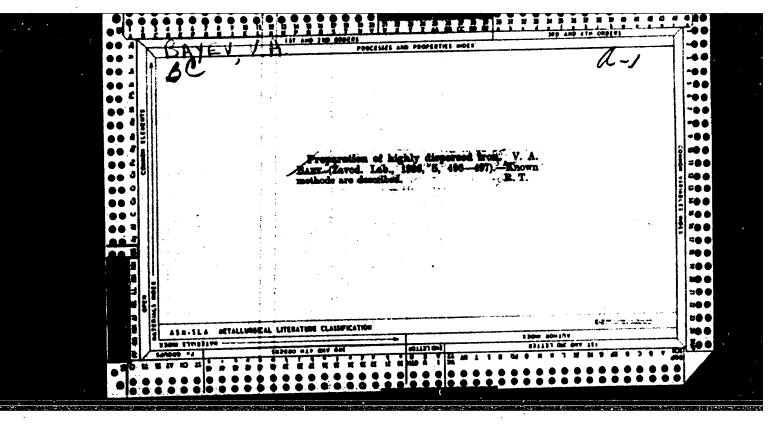
Surgical treatment of Itsenko-Cushing syndrome. Khirurgiia no.11: 73-78 '61. (MIRA 14:12) (CUSHING SYNDROME) (ADRENAL GLANDS-EXCISION)

BAYEV, V. (Sverdlovsk); BAGAROV, I. (Sverdlovsk)

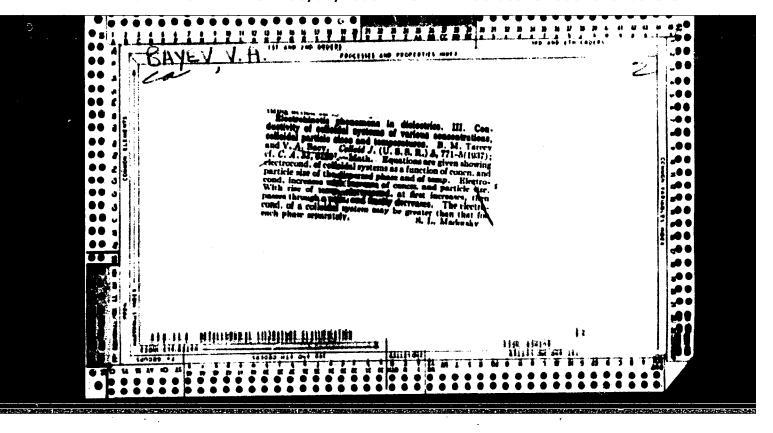
Economics in the Urals. Vop.ekon. no.1:154-157 Ja 163.

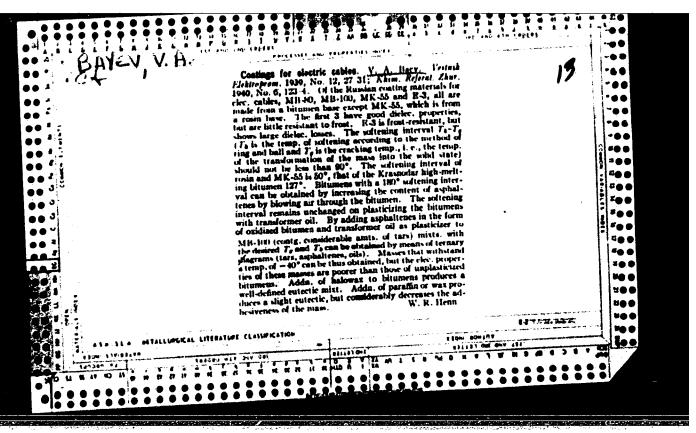
(MIRA 16:2)

(Sverdlovsk Province—Industrial management—Congresses)



L 23916-66 EMT(m)/EMP(j)AP6014943 UR/0204/65/005/001/0101/0107 SOURCE CODE: ACC NRI AUTHOR: Tsyskovskiy, V. K.; Bocharov, A. A.; Bayeva, T. Ye. ORG: All-Union Scientific Research Institute of Petrochemical Processes (Vsesoyuznyy nauchno-issledovatel skiy institut neftekhimicheskikh protsessov) TITLE: Production of oxyacids from liquid paraffins / SOURCE: Neftekhimiya, v. 5, no. 1, 1965, 101-107 TOPIC TAGS: hydrocarbon, oxidation A one-step process was developed for the production of oxygencontaining acids by continuous oxidation of liquid paraffins. The paraffins used consisted mainly of normal C14-C22 paraffins, in an effort to produce polyfunctional aliphatic compounds with a straight chain and at least 19 carbon atoms in the molecule, which are valuable as chemical intermediates. The basic factors of the process were studied: continuity of the process, influence of temperature, and residence time of the raw material in the reaction zone. The optimum conditions of oxidation, extraction, and indices of the process are presented. The possibility of producing compounds in 90% yield calculated on the basis of the converted liquid paraffins, was demonstrated; the products are obtained 99.6% pure, which makes them valuable intermediates. Orig. art. has: 2 figures and 4 tables. [JPRS] SUBM DATE: 29Apr64 / ORIG REF: 015 UDC: 661.73:547.47]:66.091:665.521.6





RATE, V. A.	esan Industrial	Uses and Applications
v. <i>§</i>		
	The Une of Aluminium for Reflectors. V. A. Bary (Taret, Metally (Non-Ferrana Metals), 1833, (12), 110-114).—[In Russian.] A review. Chemical techniq and electrochemical brightening (Brytal, Alrah) methods of improving the reflectivity of aluminium surfaces are electrical, and the reflection obtained by those methods are dealt with - A. B. prities of reflection obtained by those methods are dealt with - A. B.	
	sommer of the commence of the	

BAYEV, V. A.

BAYEV, V.A., insh.; VARDENBURG, A.K., kand. tekhn. nauk.

Polyamide resins and their use for mold insulation of electric windings. Vest. elektroprom. 27 no.8:12-16.4g 156. (MIRA 10:9)

1. Nauchno-issledovatel skiy institut Ministerstva elektrotekhnicheskoy promyshlennosti. (Amides) (Electric insulators and insulation)

BAYEV, V.A., inshener.; ZAKHAROVA, N.P., inshener.

Experimental investigation of the capacitance characteristics of the insulation of low voltage asynchronous electric motors. Vest. elektroprom. 28 no.1:72-77 Ja *57. (NIRA 10:4)

l. Mauchno-issledovatel'skiy institut Ministerstva elektrotekhnicheskoy promyshlennosti.
(Electric motors, Induction)

SOV-28-58-4-24/35

AUTHORS: Bayev, V.A., and Orzhakhovskiy, M.L., Engineers

TITLE: Classification of Electric Insulating Materials With Re-

spect to Heat Resistance (Klassifikatsiya elektroizolyat-

sionnykh materialov po nagrevostoykosti)

PERIODICAL: Standartizatsiya, 1958, Nr 4, pp 76 - 78 (USSR)

ABSTRACT: The development of new electric insulating materials re-

quired the revision of existing classification. New standards of insulating materials for electric machines, devices and transformers have been approved as well as their classification with respect to heat resistance. The importance of the new standard consists in the clear determination of limit temperatures in the continuous utilization of insulation in electric equipment. The new GOST standard complies with scientific, technical and industrial requirements. The issue of the standard will entail some modifications and additions relations to the standard of the standard will entail some modifications and additions relations to the standard of the standard will entail some modifications and additions relations to the standard will entail some modifications and additions relations to the standard will entail some modifications and additions relations to the standard will entail some modifications and additions relations to the standard will entail some modifications and additions relations to the standard will entail some modifications and additions relations to the standard will entail some modifications and additions are standard will entail some modifications and additions are standard will entail some modifications and additions are standard will entail some modifications and additional entails are standard will entail some modifications and additional entails are standard will entail some modifications and additional entails are standard will entail entails and additional entails are standard will entail entails and additional entails are standard will entail entails and additional entails and additional entails are standard entails and addits and additional entails are standard entails and additional ent

cations and additons relating to the existing standards.
Classification of the new materials is based on experimen-

Card 1/2 tal test methods in accordance with the law of heat-aging.

SOV-28-58-4-24/35

Classification of Electric Insulating Materials With Respect to Heat Resistance

The article mentions some test methods applied for this purpose.

ASSOCIATION:

NII elektropromyshlennosti (Scientific Research Institute of the Electrical Industry)

1. Electric insulation--Temperature factors 2. Electric insulation--Classification 3. Electric insulation--Standards

Card 2/2

SOV/110-59-9-19/22

AUTHORS: Bayev, V.A., Maslov, V.V. and Orzhakhovskiy, M.L.

(all Engineers)

TITLE: The Principles of Humidity Test Conditions on Products

Intended for Tropical Service

PERIODICAL: Vestnik elektropromyshlennosti,1959,Nr 9,pp 72-77 (USSR)

ABSTRACT: A great many different recommendations are made about humidity testing of products for tropical service. It is desirable to compare the different methods, to see how products may be most realistically evaluated. Tests should be of short duration but should not damage the product. Electrical qualities may be assessed by measurements of the insulation resistance or the capacitance of the insulation before and after testing. Both types of measurement were made in the present work. The ratio of the capacitance at a frequency of 2 c/s to that at a frequency of 50 c/s was also measured. recommended procedure is to measure the capacitance of the insulation during the process of humidification and to determine the relative increase in permittivity of the

Card 1/6 insulation. Graphs are then constructed of the increase in permittivity as a function of humidification time and

CIA-RDP86-00513R000204020019-3"

APPROVED FOR RELEASE: 06/06/2000

SOV/110-59-9-19/22 The of Humidity Test Conditions on Products Intended Principles for Tropical Service

the graphs for machines of normal and tropical design are compared. The humidity testing recommendations of the International Electrotechnical Commission (IEC) are discussed and it is considered that they are of limited value and applicable only to a narrow range of radio components. Accordingly, the objects of the present work were: to determine the best duration of test; to determine the best temperature and duration of accelerated test conditions; and to determine the best cycle of temperature and humidity testing. The tests were made on induction motors types A06 of 10 kW and A04 of 2.8 kW of both normal and tropical constructions. tropical 10 kW motors had silicone insulation and the normal motors class B insulation. The tropical 2.8 kW motors used glass cloth and flexible micanite as slot insulation, whilst cotton and pressboard were used in the normal motors. Tests were also made on other types of equipment, such as contactors. The humidity and tempera-Card 2/6 ture chamber is described. Electrical equipment in the chamber was exposed to a relative humidity of 98-100% at temperatures of 20, 40, 55 and 70 oc for 10-30 days.

SOV/110-59-9-19/22 and thous on Products Intend

The Principles of Humidity Test Conditions on Products Intended for Tropical Service

Moreover, at 40 and 55 °C the equipment was exposed to humidity cycles for 10-20 days. Each cycle lasted 24 hours and consisted of 6 or 18 hours at 98-100% humidity at the test temperature with subsequent cooling for 18 or 6 hours. These cycles were called 6 - 18 and 18 - 6 Similar equipment was also exposed under respectively. natural conditions at Shanghai in the wet season. Graphs of changes in climatic conditions are described. permittivity against time during tests in the tropical testing chamber at various temperatures are given in Figs 1 to 3. It will be seen that humidity testing for 13 days at 40 °C does not differentiate between tropical and normal insulation. However, at 55 °C there is an appreciable difference from the fifth day onwards. The difference is revealed even more quickly at 70 °C but at that temperature even the tropical insulation deteriorates so quickly that the difference diminishes again. It appears, therefore, best to make the test at 55 °C for seven days. The temperature at which the equipment is maintained at 98-100% relative humidity affects the rate

Card

507/110-59-3-19/22 The Principles of Humidity Test Conditions on Products Intended for Tropical Service

> of change of electrical characteristics and is of considerable interest. Figs 4 and 5 show graphs of the increase in permittivity as function of time on continuous exposure to humidity at various temperatures. The curves in Fig 6 show the degree of acceleration of the tests made at high temperature as compared with those made at 20 °C. At 70 °C appeleration is by a factor of about 30, at 55 °C by a factor of 10, and at 40 °C by a factor of 2.5-3. It is ascordingly recommended that the best test duration at 40 °C is 21-25 days, assuming that the best test time at 55 °C is 7 days. Continuous and cycled humidity tests are then compared. It will be seen from the curves given in Figs 7 and 8 that the conditions of 18 hours humidity followed by 6 hours cooling are the most severe. The recommendation that the humidity tests should be cyclic and not continuous is confirmed by the attitude of the Indian Delegation to the Stockholm Session of the I.E.C. in 1958 and by other published work. In addition to test-chamber results the curves of Figs 4 and 5 show also changes in permittivity during exposure under natural conditions in Shanghai. It is concluded that.

Card 4/6

SOV/110-59-9-19/22

The Principles of Humidity Test Conditions on Products Intended for Tropical Service

approximately, a tropical chamber test of 21 days at 40°C with the 16 - 8 cycle is 20-25 times more severe than natural exposure. Thus the chamber test of 21 days is approximately equivalent to 1-12 years' natural tropical The factors that influence the rate of exposure. humidification of insulation are briefly discussed. tests may be made at constant relative humidity but different temperatures. In this connection curve 1 of Fig 6 indicates that as the temperature is raised the rate of humidification increases more rapidly than does the total humidity present. Tests may also be made at different total humidity at various temperatures, and in this case the lower the temperature the higher the relative Also, humidification is then more rapid at the humidity. lower temperature. This was confirmed by tests on stators of normal and tropical construction; test results are plotted on Figs 9 and 10, to show change of

Card 5/6

SOV/110-59-9-19/22

The Principles of Humidity Test Conditions on Products Intended for Tropical Service

permittivity as a function of exposure time at given absolute but variable relative humidity. There are 10 figures and 3 Soviet references.

Card 6/6

BAYEV, V.A., inzh.; MASLOV, V.V., inzh.; ORZHAKHOVSKIY, M.L., inzh.

Performance of electrical equipment designed for operation in tropical climates. Vest. elektroprom. 33 no.7:30-35 Jl '62.

(NIRA 15:11)

(Electric apparatus and appliances)

BAYEV, V.A., insh.; MASLOV, V.V., inzh.

Polymer synthetic materials should be used on a wider scale. Vest.
elsktroprom. 34 no.5:1-3 My '63. (MIRA 16:5)
(Polymers)

BAYEV, V.A., inzh.; ZEYTMAN, S.M., inzh.

For the saving of nonferrous metals in the manufacture of electric apparatus and machinery. Vest.elektroprom. 32 no.8:1-4 Ag '61.

(MIRA 14:8)

(Electric engineering—Materials) (Nonferrous metals)

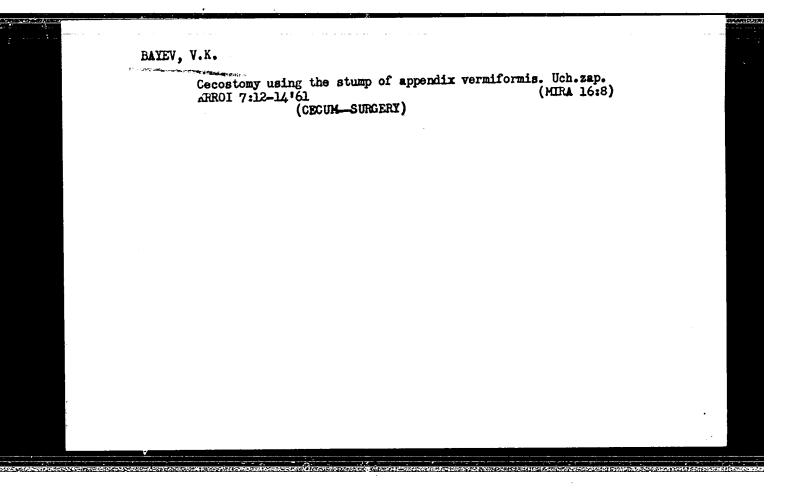
BAYEV, V.A., inzh.

Use every means to fulfil the decisions of the December Plenum of the Central Committee of the CPSU. Elektrotekhnika 35 no.1:1-2 Ja '64. (MIRA 17:2)

PAYEV, V. K.

PAYEV, V. K. - "Treatment of Gunshot Wounds of the Hip Joint." Sub 3 Jun 52, Central Inst for the Advanced Training of Physicians. (Dissertation for the Degree of Candidate in Medical Sciences),

SO: Vechernaya Moskva January-December 1952



KOLOMIYCHENKO, M.I., prof.; BAYEV, V.K., dotsent

Surgical treatment of pancreatic cysts. Ehirurgiia 38 no.10: 81-89 0 162. (MRA 15:12)

1. Iz kliniki obshchey khirurgii (zav. - prof.M.I. Kolomiychenko) Kiyevskogo meditsinskogo instituta imeni A.A. Bogomol'tsa. (PANCREATIC CYSTS)

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000204020019-3"

 FASST, i, i.	
Dissertation: "Free Convection in the Atmosphere." Cand Phys-Math Sci. Central Inst Weather Forecasting, 27 Apr 54. (Vechernyaya Moskva, Moscow, 15 Apr 54)	t of
SO: SUM 243, 19 Oct 1954	

Translation from: Referativnyy zhurnal, Geografiya, 1957, Nr 7,

p 71 (USSR)

AUTHOR:

Bayev, V. K.

TITLE:

Nonstationary Convection Currents (Nestatsionarnyye

konvektivnyye techeniya)

PERIODICAL:

Tr. Tsentr. in-ta prognozov, 1956, Nr 43 (70), pp 3-18

ABSTRACT:

The article explains the construction and solution of a problem involving free convection in the atmosphere with the help of a special procedural method. The author assumes the condition of liquid adhering to the enclosing surface and takes the temperature of this surface as $\frac{1}{2} = T_0 f(x, y, t)$, where f is a known function on the order of one. The condition of completely dampened disturbances of velocity and temperature is assumed for the limiting layer at $z \rightarrow \infty$. Equations of motion, continuity, and heat absorption

Card 1/4

Nonstationary Convection Currents (Cont.)

are reduced to a dimensionless form including a single parameter of the problem β =kl(γ l gcT₀)-2/5, representing a dimensionless combination of magnitudes: γ -- the coefficient of turbulent cohesiveness, ∞ -- the coefficient of heat expansion of the medium (∞ = 1/273), k -- the Coriolis parameter, 1 -- the distance over which all the temperature T₀ changes occur (characteristic distance), and g. Here the coefficient of the turbulent heat conduction is assumed to be equal to γ . The method of solving the system of convection equations is based on the interchange of the variables.

$$0 = t0(x, y, s, t,), u = t^{5/2} w(x, y, s, t)$$

$$v = t^{5/2} \varphi(x, y, s, t,), w = t^3 \psi(x, y, s, t),$$

where $s = z/2\sqrt{t}$. For the case of the temperature θ (x, y, s, t) the author derives the equation:

Card 2/4

Nonstationary Convection Currents (Cont.)

$$\frac{d^2Q}{ds^2} + 2s \frac{dQ}{ds} - 4Q = 4t \frac{dQ}{dt} + t^{7/2} \left(2w \frac{dQ}{dx} + 2v \frac{dQ}{dy} + v \frac{dy}{dz}\right).$$

The remaining equations of the investigated system have an analogous structure. Assuming that the function $\underline{\mathbf{f}}$ may be transformed into an infinite series

 $f(x, y, t) = t \sum_{n=1}^{\infty} f_n(x, y) t^{n/2},$

the author searches for the expression for V, ω , φ , ψ in the form of analogous series for t1/2. In this process he obtains a recurrent system of differential equations for the coefficients of transformation, so that nonlineal members are found in the seventh and further equations. The solutions are expressed by auxiliary functions related to the polynomials of Chebyshev-Hermite. analogous method is used for solving a more general problem of a Card 3/4

Nonstationary Convection Currents (Cont.)

two-layer medium (air-earth) with a given heat balance at the earth's surface. The author presents examples of calculations for the case of $v = te^{-a}$ (the case of an island in an endless ocean or of a city). He plots the flow lines and the wind profiles at a = 0.1 and at a = 10. In the former case the temperature contrasts are small, the wind involves a layer on the order of 100 m thick, horizontal velocity alters its sign at a certain altitude, and flow lines assume the form of helices on toroidal surfaces. In the latter case horizontal velocity becomes positive at a certain height, flow lines (projected) are not closed, the activity progresses in a more intensive manner and involves a thicker layer. The author also carries out a calcutation of convections at ϑ = tthx (the case of a breeze). He discovers a sharp drop of temperature following the passage of a breeze front. A maximum horizontal velocity (about 5 m/sec) is reached at a distance of some 15 km from the shore. height of the disturbed layer is about 1.5 km. Card 4/4 P. L.

SOV/124-57-9-10497

Translation from: Referativnyy zhurnal, Mekhanika, 1957, Nr 9, p 87 (USSR)

AUTHOR: Bayev, V. K.

TITLE: Nonstationary Convective Flows (Nestatsionarnyye konvektivnyye

techeniya)

PERIODICAL: Tr. Tsentr. in-ta prognozov, 1956, Nr 43(70), pp 3-18

ABSTRACT: With the help of Blasius' method (the solution is sought in the form of special series with respect to time) the author solves the nonlinear

problem of the development of laminar convection generated by a thermal heterogeneity of the underlying surface (the so-called breeze), the temperature of which is either prescribed in an arbitrary manner or is determined from the state of the heat balance (the exact solutions of the breeze problem for certain specific cases of temperature distribution on the underlying surface were obtained by the reviewer

[Dokl. Tsentr. in-ta prognozov, 1947, Vol 1, Nr 3; Tr. Tsentr. in-ta prognozov, 1948, Nr 8 (35)]. Without considering the question of the convergence of the solution, the author adduces some velocity profiles

Card 1/2 calculated for actual cases of the temperature distribution on the surface of the earth. These calculations expose for the first time certain

Nonstationary Convective Flows

SOV/124-57-9-10497

features of thermal convection (for example, the origin of downdrafts over a heated surface) which had previously been experimentally established.

L. N. Gutman

Card 2/2

BAYEV, V.K.

3(7)

PHASE I BOOK EXPLOITATION

SOV/3249

Moscow. Tsentral'nyy institut prognozov

- Voprosy dolgosrochnykh prognozov pogody (Problems in Long-Range Weather Forecasting) Moscow, Gidrometeoizdat (otd.), 1959. 62 p. (Series: Its: Trudy, vyp. 85) Errata slip inserted. 900 copies printed.
- Sponsoring Agency: USSR. Sovet ministrov. Glavnoye upravleniye gidrometeorologicheskoy sluzhby.
- Ed. (Title page): G. I. Morskiy; Ed. (Inside book): L. V. Blinnikov; Tech. Ed.: T. Ye. Zemtsova.
- PURPOSE: This issue of the Institute's Transactions is intended for scientific research and field workers in meteorology as well as for advanced students in schools of higher education.
- COVERAGE: This is a collection of three articles in synoptic and general meteorology. Two of the articles deal with problems concerning the general circulation of the atmosphere while the third discusses the matter of forecasting mean 7-day pressure maps. References accompany each article.

Card 1/3

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000204020019-3"

Problems in Long-Range (Cont.)

SOV/3249

TABLE OF CONTENTS:

Bayev, V. K. On the Theory of the General Circulation of the Atmosphere

The author attempts a theoretical description of the general circulation in
the most general statement of the problem. This entails, first of all, the
consideration of nonlinear and viscosity members in differential equations,
and also the consideration of the nonadiabatic effects which play a basic
role in the general circulation of the atmosphere. This work differs from
others on the problem insofar as the author pays stricter attention to the
dependence of the thermal properties of the underlying surface on geographic
coordinates. Computations are introduced to show that temperature in time
and space as well as all elements of motion may be determined when the initial
distribution of meteorological elements and the heat influx from the Sun, as
a function of time, are known. There are 4 references: 3 Soviet and 1 English.

Zverev, N. I. Forecasting a Mean AT 500 Seven-day Chart
Since most extended forecasts do not deal with weather conditions to be expected in the week immediately following the date of chart compilation, the author presents a statistical method of compiling mean 7-day charts. The author works on the basic premise that the development of synoptic processes in the future is completely determined by the history of synoptic processes over a given region. There are 7 references: 4 Soviet and 3 English.

Card 2/3

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000204020019-3"

27

Problems in Long-Range (Cont.)

SOY/3249

Morskoy, G. I. On the Zonal Circulation of the Atmosphere

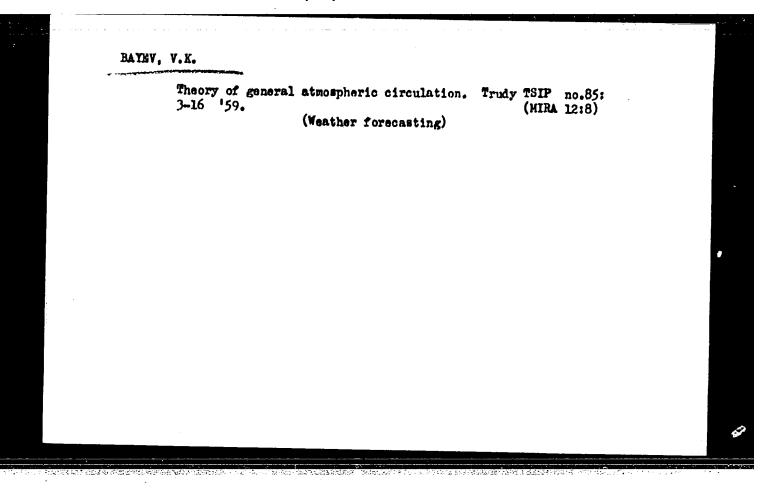
The author restricts himself to those questions related to the formation and
evolution of the profile of westerly winds. He understands zonal circulation as a planetary, rather than a regional, phenomenon with like value
everywhere on the latitude circle. The author gives a detailed history of
studies made on this question (his bibliography includes 84 items). In
striving for simplicity in the basic equation the author considers the main
factors: horizontal displacement, wind departures from the geostrophic, and
the action of the thermal field. There are 84 references: 33 Soviet,
39 English, 11 German, and 1 French.

40

AVAILABLE: Library of Congress

Card 3/3

TM/lsb 3-1-60



SHALIMOV, Aleksandr Alekseyevich; RED'KIN, Sergey Nikolayevich;
BAYEV, V.K., red.

[Atlas of surgical operations on the organs of the abdominal cavity] Atlas khirurgicheskikh operatsii na organakh briushnoi polosti. Kiev, Zdorovia, 1965. 422 p.

(MIRA 18:9)

BRODSKIY, Andrey Faustovich; BAYEV, V.K., red.

[Preservation and homotranspiantation of tissues] Konservirovanie i gomotransplantatsiia tkanei. Kiev, Zdorovia, 1965. 142 p. (MIRA 18:8)

L 22485-65 EWT(m) AS(mp)-2/ESD(gs)/DIAAP

ACCESSION NR: AT5001495

8/2759/64/000/006/0043/0050

AUTHOR: Bayev, V. K.; Gass, V. F.

TITLE: Dynamics of particles in a cylindrical cavity operating at the Eolo mode

SOURCE: Moscow. Inzhenerno-fizicheskiy institut. Uskoriteli, no. 6, 1964, 43-50

TOPIC TAGS: electron bunching, electron acceleration, electron dynamics, cylindrical cavity, electron beam acceleration

ABSTRACT: The authors calculate the dynamics of <u>longitudinal</u> particle motion in a round cylindrical cavity operating in the E_{OlO} mode, using a combination of analytic and graphical methods. The electron kinetic energy is determined analytically as a first integral of electron motion, and families of curves are plotted with which to determine the phase-energy relations and the energy spectrum of the electron beam at the output of single cavities and of several cavities in cascade, as functions of the cavity length, the field intensity, and the frequency of the electromagnetic field. A numerical example illustrating the application of the method shows that a monoenergetic electron bunch with phase dimension of 110°

Cord 1/2

L 22485-65

ACCESSION NR: AT5001495

can be accelerated with the aid of a system of three cavities from 50 keV to 1 MeV, thereby reducing its phase dimension to less than 10° and retaining its monoenergetic character. Orig. art. has: 9 figures and 4 formulas.

ASSOCIATION: Inzhenerno-fizicheskiy institut, Moscow (Engineering-Physics Institute)

SUBMITTED: 00

ENCL: OC

SUB CODE: EC, NP

NR REF SOV: OOL

OTHER: 005

Cord 2/2

THE LEAST OF LAND MALLEY nn/sn/snm sm ACC NR: AP6030933 SOURCE CODE: UR/0207/66/000/004/0145/0149 AUTHOR: Bayev, V. K. (Novosibirsk) ORG: none TITLE: Criterial description of the flame geometry of a homogeneous mixture SOURCE: Zhurnal prikladnoy mekhaniki i tekhnicheskoy fiziki, no. 4, 1966, 145-149 TOPIC TAGS: combustion, ramjet combustion, combustion chamber, combustor, combustion mechanism ABSTRACT: The generalization of experimental data on combustion in burners of various designs is important for designing new combustion chambers with the aid of previously published experimental material. Therefore, in this study, a dimensionless parameter based on the energy equation was derived for use in correlating flame lengths with other flow parameters in burners of various geometries. It was shown that the dimensionless flame length X can be correlated with the parameter B, by the equation $|\chi = e B_1^n|$ where \mathbf{u}_0 is the initial flow velocity; \mathbf{u}_n , normal burning velocity; a, thermal conductivity d, burner diameter; and θ_0 is the dimensionless temperature. Plots of log X vs B_1 gave straight lines for experimental data obtained previously in various burners at Card 1/2

	initial temperatures of air excess coefficients,			
	with a ramjet combustor Andreyev in a tunnel fur	using a trough shape	d flame holder and	gasoline fuel, by
~	with a square burner usi used for calculating the	ing a utility gas-air	mixture. The param	eter B, can be also
	.length at flash-back. O			
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.10		•	•	· :

BAYEV, V.M.; RYABOV, R.A.

Kinetics of the separation of hydrogen from steel. Trudy Ural.
politekh. inst. no.92:110-113 '59. (MIRA 13:12)
(Steel--Hydrogen content) (Diffusion)

S/137/61/000/012/115/149 A006/A101

AUTHOR:

Bayev, V.M.

TITLE:

The effect of structure on hydrogen diffusion in carbon steel

PERIODICAL:

Referativnyy zhurnal. Metallurgiya, no. 12, 1961, 2, abstract 12Zh12 ("Tr. Ural'skogo politekhm. in-ta", 1961, no. 114, 138 - 143)

TEXT: The diffusion process was studied by measuring the rate of H desorption from a cylindrical y -12 (U-12) steel specimen (5 ma in diameter, 70 mm height). The specimen was charged with H by the method of cathode polarization, and was then placed into a quartz tube connected with a vacuum system of pumping and measuring units. Desorption was studied within a temperature range of 500-700°C. Specimens were prepared having a perlite microstructure with a normal and a "torn" cementite network. H diffusion is noticeably higher in the latter than in the former structure. The activation energies are close for both cases, since diffusion proceeds over the same structure (ferrite). The diffusion factor for perlite with a torn cementite network is equal to (2.07-3.04).10⁴ cm²/min

Card 1/2

S/137/61/000/012/115/149
The effect of structure ... S/137/61/000/012/115/149

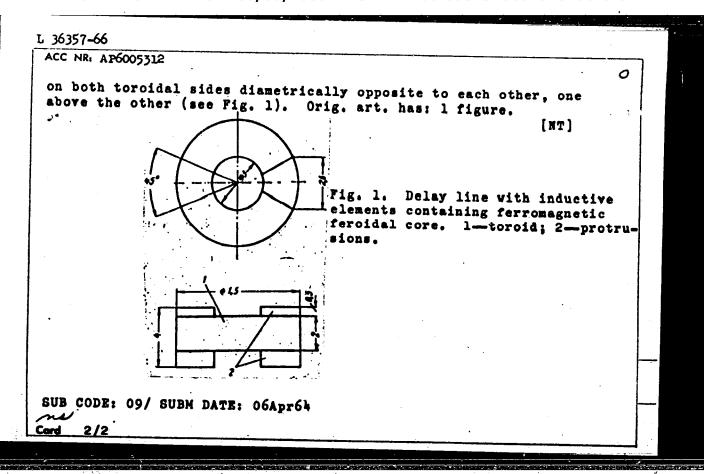
within 4 73 - 675°C, and for perlite with a normal cementite network it is (1.52-1.82).10° cm²/min within 590 - 685°C.

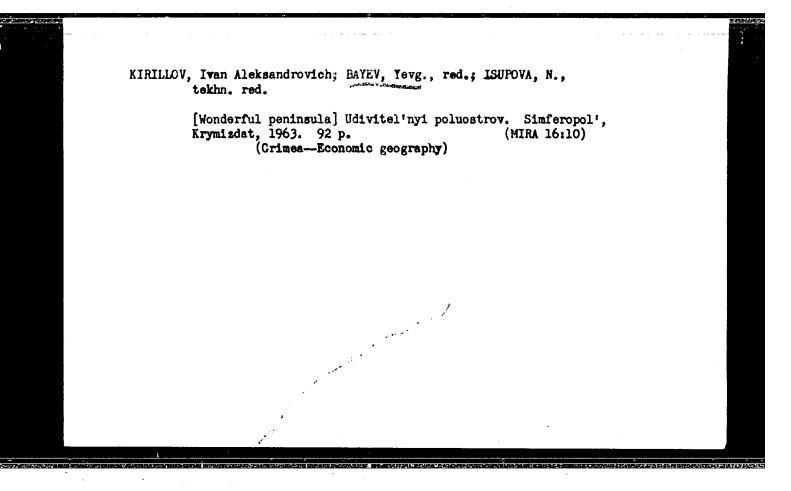
A. Rusakov

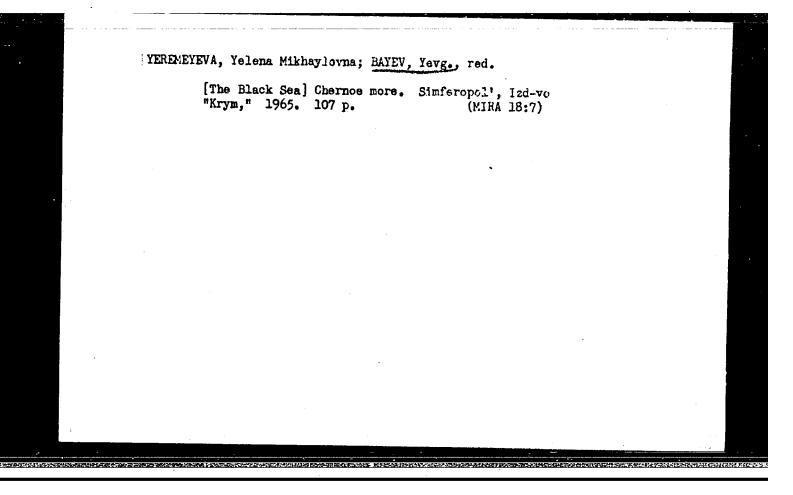
[Abstracter's note: Complete translation]

Card 2/2

36357-66 EWT(1) ACC NR. AP6005312	SOURCE CODE: U	R/0413/66/000/001/00	46/00472
INVENTOR: Bayev, Ye. 1	F.; Burylin, Ye. I.;	•	
	And we surply	Control of the second	32
ORG: none			\mathcal{B}
TITLE: <u>Delay line</u> with toroidal cores. Class	inductive elements c 21, No. 177496	ontaining ferromagne	tic
SOURCE: Izobreteniya, 11966, 46-47	promyshlennyye obrazt	sy, tovarnyye znaki,	no. 1,
TOPIC TAGS: delay line,	, ferromagnetic mater	ial, inductive elemen	nt
ABSTRACT: An Author Cerinductive elements contente optimum coupling coeline, these ferromagneti	aining ferromagnetic efficient of inductive ic cores have four pro-	toroidal cores. To	obtain
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Card 1/2	UDC: 621.374.5	•	







KHOKHHYAKOV, Yuriy Alekseyevich; HAYEV, Yevg., red.

[Southern shore of the Crimea] IUzhnyi bereg Kryma.

Simferopol', Izd-vo "Krym," 1964. 158 p.

(MIRA 17:10)

SHANTYR', Sergey Favlovich; BAYEV, Yevg., red.

[Miskhor, Koreiz, Gaspra; a regional study] Miskhor, Koreiz, Gaspra; kraevedcheskii ocherk. Simferopol', Izd-vo "Krym," 1964. 147 p. (MIRA 18:1)

KOKHANOVICH, Mikhail Vasil'yevich, prof., moktor med. nauk; BAYEV, Yevg., red.

[Mineral waters of the Crimea; their therapeutic significance] Mineral'nye vody Kryma; ikh lechebnoe znachenie. Simferopol', Krym 1964. 171 p. (MIRA 18:1)

BRUSILOVSKIY, Isaak Abramovich; MILOSLAVSKIY, Vilen Naumovich; BAYEV, Yevg., red.

[Saki; an historical regional study] Saki; istorikokraevedcheskii ocherk. Simferopol', Krymizdat, 1964. 79 p. (MIRA 17:6)

YENA, Vasiliy Georgiyevich, kand. Beogr. nauk; BAYEV, Yevg., Landform monuments] Landshaftnye pamiatniki. Simferopoli, Izd-vo "Krym," 1964. 74 p. (MIRA 17:10)

VCLOSHIN, likhwil setrovich, kand. biol. nauk; bever, vevgenny, reed.

[Farks of the Crimea] Farki Kryma. ...imfa opol', lzd.-vo
"Krym," 1964. 158 p. (MIRA 17:10)

FILIPPOV, Valentin Vasil'yevich; BAYEV, Yevg., red.; FISENKO, A., tekhn.

[In the main direction] Na glavnom napravlenii. Simferopol', Krymizdat, 1961. 27 p. (MIRA 15:11)

1. Sekretar' partiynogo komiteta kolkhoza "Rossiya" Krasnogvardeyskogo rayona (for Filippov). (Krasnogvardeyskoye District--Gollective farms---Management)

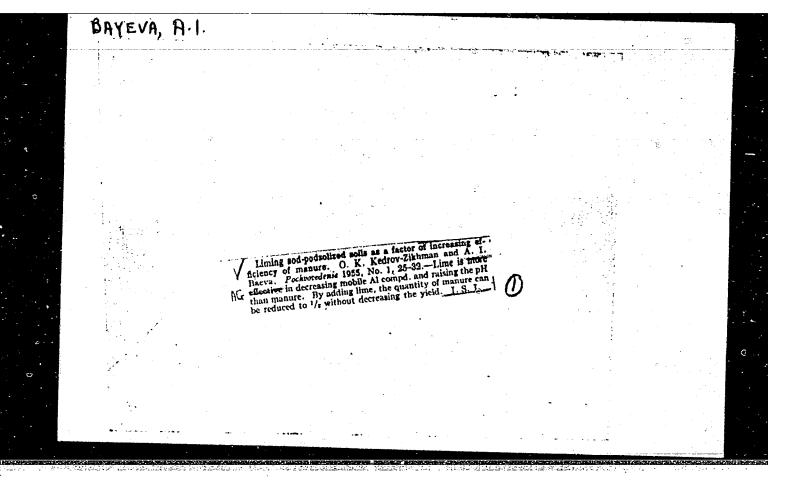
GRIGOR'YEV, Nikolay Nikolayevich; SEVERINOV, Sergey Stepanovich; BAYEV, Yevg., red.

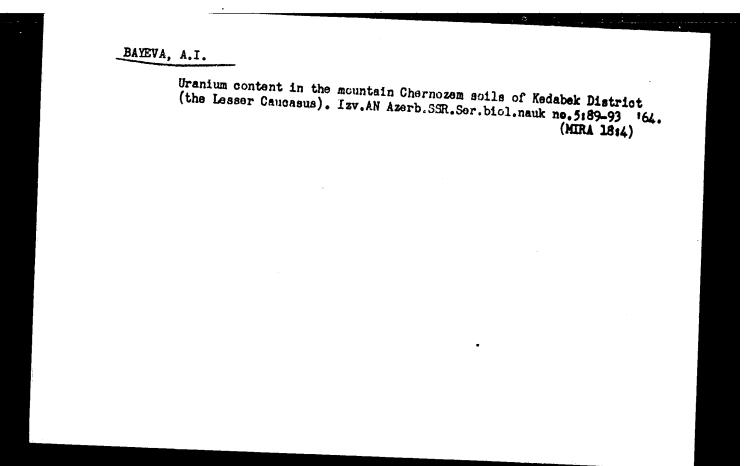
[Yevpatoriya, the city of sun; a brief essay on the history of the town. A device for guests at Yevpatoriya Health Resort. For whom treatment at Yevpatoriya is recommended] Evpatoriia, gorod solntsa; kratkii rasskaz ob istorii goroda. Sovety otdykhaiushchim na evpatoriiskom kurorte. Komu rekomendovano lechenie v Evpatorii. Simferopoli, I₂d-vo "Krym," 1965. 140 p. (MIRA 18:11)

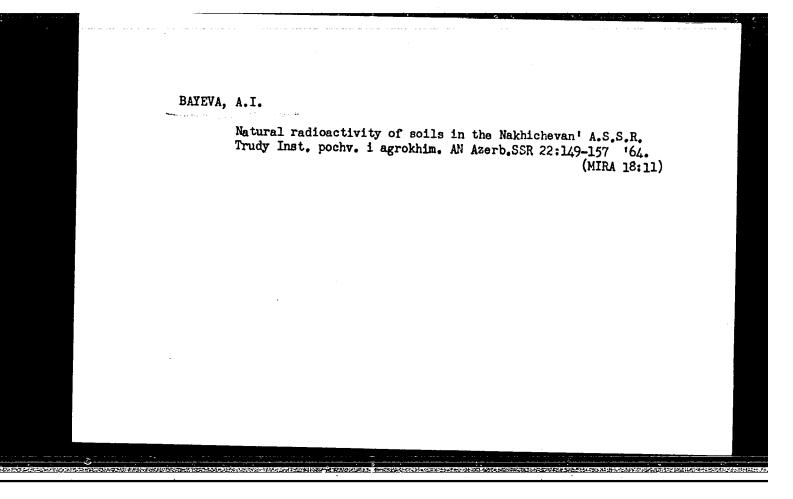
BAYEVA, A. I.

"The Effect of Organic Fertilizers in the Liming of Meadow-Podzolic Soils on the Yield of Agricultural Plants." Cand Agr Sci, Inst of Socialized Agriculture, Acad Sci Belorussian SSR, Minsk, 1954. (KL, No 2, Jan 55)

Survey of Scientific and Technical Dissertations Defended at USSR Higher Educational Institutions (13)
SO: Sum. No. 598, 29 Jul 55







MARKUSHEVICH, Aleksey Ivanovich; BAYEVA, A.P., red.

[Integral functions; an elementary outline] TSelye funktsii; elementarnyi ocherk. Moskva, Nauka, 1965. 106 p. (MIRA 18:7)

WULIKH, Boris Zakharovich; BAYEVA, A.P., red.

[Short course in the theory of functions of real variables] Kratkii kurs teorii funktsii veshchestvennoi peremennoi. Moskva, Nauka, 1965. 304 p. (MIRA 18:8)

EYLER, Leonard [Fuler, Leonard]; FRANKL', F.I. [translator]; BATEVA, A.P., red.; MURASHOVA, N.Ya., tekhn.red.

[Integral calculus] Integral noe ischislenie. Moskva, Gos. izd-vo fiziko-matem.lit-ry. Vol.3. 1958. 448 p. [Translated from the Latin]

(Calculus, Integral)

(Calculus, Integral)

KUMOSH, Aleksandr Gennadiyevich; BAYEVA A.P., red.; BRUIEIO, K.F., tekhn.red.

[Course in higher algebra] Kurs vysshei algebry. Izd.6, perer. i dop. Moskva, Gos.izd-vo fiziko-matem.lit-ry, 1959.

(Algebra)

(Algebra)

PONTRYAGIN, Lev Semenovich; BOLTYANSKIY, V.G., red.; BAYEVA, A.P., red.; YERMAKOVA, Ye.A., tekhm. red.

[Ordinary differential equations] Obyknovemnye differentsial'nye uravneniia. Moskva, Gos. izd-vo fiziko-matem. lit-ry, 1961. 311 p.

(Differential equations)

MERKIN, David Rakhmil'yevich; BAYEVA, A.P., red.; PLAKSHE, L.Yu., tekhn.

[Algebra of free and sliding vectors] Algebra svobodnykh i skol'ziashchikh vektorov. Moskva, Fizmatgiz, 1962. 163 p.

(Vector analysis)

SHREYDER, Yuliy Anatol'yevich; BAYEVA, A.P., red.; PLAKSHE, L.Yu., tekhn. red.

[What is distance?] Chto takee rassteianie? Moskva, Fiz-matgiz, 1963. 75 p. (Polupliarnye lektsii po matematike, no.38) (MIRA 17:2)

POSTNIKOV, Mikhail Mikhaylovich; BAYEVA, A.P., red.; AKSEL'ROD, I.Sh., tekhm. red.

[Galois theory]Teoriia Galua. Moskva, Fizmatgiz, 1963. 218 p.

(Fields, Algebraic)

(MIRA 16:4)

FUKS, Boris Abramovich; SHABAT, Boris Vladimirovich; BAYEVA, A.P., red.

[Functions of complex variables and some of their applications] Funkt li kompleksnogo peremennogo i nekotorye ikh prilozheniia. Izd.3. Moskva, Izd-vo "Nauka," 1964. 387 p. (MIRA 17:6)

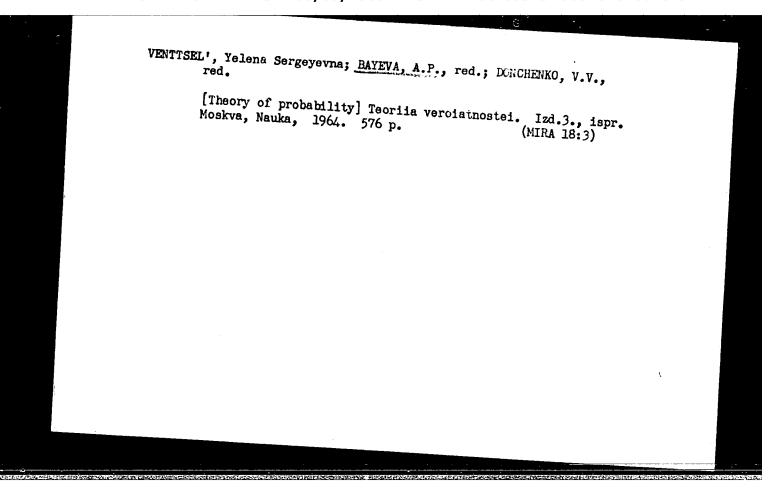
ZAYTSEV, Ivan Lazarevich; BARANENKOV, G.S., red.; BAYEVA, A.P., red.

[Elements of higher mathematics for technical schools] Elementy vysshei matematiki dlia tekhnikumov. Izd.7., perer. Moskva, Nauka, 1964. 422 p. (MIRA 17:10)

VENTTSEL', Yelena Sergeyevna; BAYEVA, A.P., red.

[Elements of dynamic programming] Elementy dinamicheskogo programmirovaniia. Moskva, Izd-vo "Nauka," 1964.

173 p. (MIRA 18:2)



MESHALKIN, Ye.N.; SERGIYEVSKIY, V.S.; FEOFILOV, G.L.; SAVINSKIY, G.A.; BAYEVA, A.V.

First attempts at the surgical treatment of bronchial asthma by the autotransplantation of the lungs. Eksper. khir. i anest. 9 no.6:26-33 N-D 164. (MIRA 18:7)

1. Institut eksperimental'noy biologii i meditsiny (nauchnyy rukovoditel' - prof. Ye.N.Meshalkin; direktor - dotsent Yu.I. Borodin) Ministerstva zdravookhraneniya RSFSR, Novosibirsk.

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000204020019-3"

69787

24.2410 5.3700(8)

8/055/59/000/06/13/027 B006/B005

AUTHORS:

Ignat'yeva, L. A., Bazhulin, P. A., Bayeya, I. K.

TITLE:

The Integral Intensities of Infrared Absorption Bands in the

Series of (CH₃)_nSiCl_{4-n} Compounds

PERIODICAL:

Vestnik Moskovskogo universiteta. Seriya matematiki, mekhaniki, astronomii, fiziki, khimii, 1959, No. 6, pp. 127 - 130

This article reproduces a report delivered at the Conference on Chemistry and Use of Organosilicon Compounds in September 1958. The results of infrared absorption spectrum investigations are listed in a table, and subsequently described in detail. To exclude intermolecular interactions, the spectra of the gaseous compounds were recorded at low pressures. The spectra were registered by means of a split-beam infrared spectrometer of the type IKS-2 in the range of from 4,000 to 530 cm $^{-1}$. A bismuth bolometer with a sensitivity of 25 v/w was used as a radiation receiver. To avoid distortions of the band form, recording was carried out at small velocities. The samples were placed in glass cuvettes, 45 and 100 mm long, with a KCl window. Vapor pressure was measured by a mercury

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The Integral Intensities of Infrared Absorption Bands 8/055/59/000/06/13/027 in the Series of (CH₃)_nSiCl_{4-n} Compounds 8/055/59/000/06/13/027

manometer. The experiments were carried out at pressures of 4 and 10 torr (i.e. 1-10% of the saturation pressure). Cuvettes evacuated to 5.10-3 torr were introduced for compensation into the second channel of the spectrometer. The

integral absorption coefficient $A = \int_{-\infty}^{+\infty} \alpha_{y} dy$, where α_{y} is the absorption coef-

ficient referring to unit length and pressure, was used as a measure for the integral absorption intensity. It was possible to measure the pressure with an accuracy of 10-15%. Without corrections, the total error of intensity measurement was 20-25%. Results (y in cm⁻¹):

Card 2/3

69787

The Integral Intensities of Infrared Absorption Bands S/055/59/000/06/13/027 in the Series of (CH₃)_nSiCl_{4-n} Compounds S/055/59/000/06/13/027 Substance

ours tance	aymmetr. valency-		8 0 V m				Oscillation type					
			asymmetr. Valency- CH ₃		symmetr. deforma- tion-CH _z		symmetr. valency- Si-C		asymmetr. valency- Si-C		asymmetr. valency-	
_		A	V	A		<u> </u>			01	-0	Si-	C
(CH ₃)SiCl ₃		48	2985	103	1066		<u> </u>		Y	A	V	
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(CH ₃) ₃ Sic1	_			170	1264	370	691	220	804	107		458
	2905	145	2975	280	1261	415	631	•	•	407	538	258
(CH ₃) ₄ 81	2900	210	2970	360	1259		ונט	105	761	239	•	-
				,	1279	500	-	-	690	225		

M. I. Batuyev, A. D. Petrov, V. A. Ponomarenko, and A. D. Matveyeva are mentioned. There are 1 table and 4 references, 1 of which is Soviet.

ASSOCIATION: Kafedra optiki (Chair of Optics)

SUBMITTED: April 23, 1959

Card 3/3

37771

15.8170 515310 S/661/61/000/006/062/031 D243/D302

Ignat'yeva, L. A., Bazhulin, P. A. and Bayeva, I. K. AUTHORS:

The intensities of the infrared absorption bands of sili-TITLE: co-organic compounds of the series $(C\hat{H}_3)_n SiCl_{4-n}$

Khimiya i prakticheskoye primeneniye kremneorganicheskikh SOURCE: soyedineniy; trudy konferentsii, no. 6: Doklady, diskussii, resheniye. II Vses. konfer. po khimii i prakt. prim. kremneorg. soyed., Len. 1958. Leningrad Izd-vo AN SSSR, 1961, 277-282

TEXT: The authors studied the integral intensities of the infrared absorption bands of the above compounds, where n = 1,2,3,4, and follow the change of intensity and frequency of the absorption bands for separate bonds in the molecule when Cl's were substituted by CH3 groups. All investigations were carried out in the vapor phase at low pressures to exclude intermolecular reactions. The spectra were recorded with a two-ray NkC-2(IKS-2) infrared spectrometer Card 1/3

CIA-RDP86-00513R000204020019-3"

APPROVED FOR RELEASE: 06/06/2000

The intensities of

S/661/61/000/006/062/081 D243/D302

in the region 4000 to 530 cm⁻¹, a bismuth bolometer acting as radiation receiver and the spectra being recorded at low speeds to avoid distortion. The experiments were carried out at 4 mm and 10 mm pressures. The average error in measuring the integral intensity was 20 - 25%. A. L. Smith's interpretation of the I-R absorption bands was accepted but the 761 cm⁻¹ frequency band was taken as the valence asymmetric oscillation of Si-C in (CH₃)₃SiCl. The results

are given in tabulated form and show the characteristic changes which occur. It is suggested that the rise in intensity of the Si-C oscillation may be due to the large difference in electronegativity between the Si atoms (1.8) and the Cl atoms (3.0), which increases the dipole moment of the Si-C bond. Reference is male to the work of M. I. Batuyev, A. D. Petrov, V. A. Ponomarenko and A. D. Matveyeva in this connection. Also, with a high number of chlorine atoms in the molecule, changes in dipole moment of the vi-Cl bonds cillation intensity of the latter to rise. There are 1 table and 4 references: 1 Soviet-bloc and 3 non-Soviet-bloc. The references to

Card 2/3

S/661/61/000/006/062/081 D243/D302

The intensities of ...

the English-1 nguage publications read as follows: T. Shimanouchi, I. Tsuchiya and Y. Mikawa, J. Chem. Phys., 18, 1306, (1950); I. Duchesne, J. Chem. Phys., 16, 1006, (1948).

ASSOCIATION: Moskovskiy gosudarstvenny universitet im. L. V. Lomonosov)

nosova (Moscow State University im. N. V. Lomonosov)

X

Card 3/3

KOPTYUG, V.A.; VOLODARSKIY, I.B.; BAYEVA, I.K.

Use of ultraviolet and infrared spectra for determining the structure of condensation products of N-(1-oximino-1,2,3,4-tetrahydro-2-naphthyl) hydroxylamine with aromatic aldehydes. Zhur.ob.khim. 34 no.1:151-157 Ja '64. (MIRA 17:3)

1. Novosibirskiy institut organicheskoy khimii Sibirskogo otdeleniya AN SSSR.

KOPTYUG, V.A.; BAYEVA, L.W.; SHUBIN, V.G.; KORCHAGINA, D.V.; KOMAGOROV, A.M.; REZVUKHIN, A.I.

Infrared spectra of protonated aromatic hydrocarbons. 1zv. AN.SSSR.Ser.khim. no. 5:948 My '64. (MIRA 17:6)

1. Novosibirskiy institut organicheskoy khimi Sibirskogo otdeleniya AN ${\tt SSGR}_\bullet$

KOPTYUG, V.A.; SHUBIN, V.G.; BAYEVA, I.K.; KORCHAGINA, D.V.; KOMAGOROV, A.M.; REZVICHIN, A.I.

Complexes of aromatic hydrocarbons with metal halides and hydrogen halides. Part 3: Infrared absorption spectra of complexes formed by methylbenzene with aluminum bromide and hydrogen bromide.

Zhur. ob. khim. 35 no.6:1111-1116 Je 165. (MIRA 18:6)

1. Novosibirakiy institut organicheskoy khimii.

BAYKVA, I.Yo.

Peculiarities in the course of bacillary dysentery associated with pathogenic protosoa. Zdrav.Turk. 2 no.1:23-27 Ja-F 158. (NIRA 12:6)

1. Is Ashkhabadskoy gorodskoy infektsionnoy bol'nitsy No.2 (glavnyy vrach - I.Ye.Bayeva) (DYSENTERY) (PROTOZOA, PATHOGENIC)

BAYEVA, I.Ye.; SILANT' YEVA, Ye.V.; GAZAL' YAN, S.I.; KRASKOVA, N.I.; SHAYKHULIMA, H.N.; SINEL'NIKOV, N.A.

Use of a decoction of Alhagi camelorum for the treatment of dysentery. Zdrav. Turk. 3 no.3:46-48 My-Je '59. (MIRA 12:11)

1. Is kafedry mikrobiologii (sav. - dotsent A.I.Koval'chuk).
Turkmenskogo meditsinskogo gosudarstvennogo instituta im. I.V.
Stalina i infektsionnoy bol'nitsy Leninskogo rayona Ashkhabada
(glavnyy vrach - I.Ye.Bayeva).

(DYSENTERY)

(ALHAGI CAMELORUM--THERAPEUTIC USE)

BAYEVA, Laborantka (Rostov-na-Donu)

Mutual help and strict inspection are required. Stroi. truboprov. 7 no.1:24 Ja '62. (MIRA 16:7)

l. Polevaya laboratoriya stroitel'nogo uchastka No.5 tresta
Yuzhgazprovodstroy.
(Pipelines) (Protective coatings)

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DIMITROV. M.K. (Bolgariya, Sofiya, ul. "M.Gogol", Mo.1); BAYEVA, M.M.

Remote therapeutic effect and hyperergic reaction in radiotherapy of a malignant melanoms [with summary in English] Vop.onk, 4 no.1; 111-112 '58.

1. Iz okrushnogo inkologicheskogo dispansere (glavnyy vrach - M.K.Dimitrov) Soviya, Bolgariya.

(RADIOTHEMAPY, in var. dis.

melanoma, ther. eff. & hyperergic reaction (Rus))

(MELANOMA, therapy,

skin, x-ray ther., eff. & hyperergic reaction (Rus))

(SKIN MEDPLASMS, therapy,

melanoma, x-ray ther., eff. & hyperergic reaction (Rus))
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USSR/Cultivated Plants. Potatoes, Vegetables, Melons.

Abs Jour: Ref Zhur-Diol., No 17, 1958, 77689.

Author : Bayeva, M.V.

: Crimea Agricultural Institute.

Inst '

Title : Raising Winter Cabbage in the Southern Littoral of

Crimea.

Orig Pub: Tr. Krymsk. s.-kh. in-ta, 1957, 4, 249-255.

Abstract: In 1952-1954 the Derbentskaya, Koporka Odessa and Sudya varieties of cabbage were tested; the most promising proved to be Derbentskaya. It is reconmended to plant seeds for germination in ground ridges from 15 to 30 of September, to set the plants in a permanent place from 25 October to 10 November. The best predecessors are perennial grasses; with good preparing of the soil with organic fertilizers,

: 1/2 Card

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KIRPICHNIKOV, P.A.; TARASOVA, Z.N.; BAYEVA, N.A.; FEDOROVA, T.V.

Sulfur-containing polyphosphites and their use as stabilizers
 of butadiene-styrene rubbers. Vysokom. soed. 7 no.8:1368-1372
 Ag *65. (MIRA 18:9)

Kazanskiy khimiko-tekhnologicheskiy institut imeni S.M. Kirova, i.Nauchno-issledovatel'skiy institut shinney promyshlennosti.

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strength, s	mergy Newson (b)	nte, phosphorous 1911 Misstrength agent, 5K		
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ABSTRACT required. If change of each dimydroxydigatmospheric	More effective hy lydrolysis-resista: uimolar in tants o henyi suifides. T pressure then or	rolysis-resistant stabi polyphosphites were s aryl esters of phospho syntheses were condu	1.	Pr- :

L 64556-65 ACCESSION NR: AP5020968 on heating with powdered sulfur. Polyphosphites based on 4, 4'-dihydroxy-2, 2'-dimethylsulfide and 4, 4'-dihydroxy-3, 3'-dimethylsulfide hydrolysed very slowly and the product with 4, 4'-dihydroxy-2, 2'-dimethyl-5,5'-di-tert, butyldiphenyl sulfide (I) was almost inspluble. When tested as unitfatigue agents in filled and unfilled butadiene-styrene $\underline{SKS-30}$ \underline{ARKM}^{p} where tray were more effective than Neozon D. They displayed a synergistic Constant with News and The product of I with triptensiphosphite was especially effective. Orag art has 3 tables and 1 equation ASSOCIATION: Kazanskiy khimiko-tekhnologicheskiy institut im. S. M. Kirova (Kazan Chemical Engineering Institute); Nauchno-issledovateliskiy institut shinnoy Constitute Research Institute for the Tire Industry) SUBMITTED: 14Sep64 ENCL: 00 SUB CODE: CC, MT NR REF SOV: 007 OTHER: 003 Cord 2/2

ACC NR: AP7001964	(N)		UR/0120/66/000/6	006/0204/0206	
AUTHOR: Bayeva, N. N.; D	anilova, N. P.;	Shal'nikov, A	. I.		
ORG: Physics Department	MGU (Pizicheskiy	fakultet MGU	•		
TITLE: Cryogenic ultrahi	gh-vacuum pump				
SOURCE: Pribory 1 tekhni	ka eksperimenta,	no. 6, 1966,	204-206		
TOPIC TACS: vacuum pump,	ultrahigh vacuu	m pump, cryog	enic vacuum pump		
a pressure belowas found to he of about 25%,	and tested. The www 10 ⁻⁶ torr. Be ave no effect on introduction of the secure above 10 ⁻⁶	e pump can evances of the pump perf 0.03 cm ³ of g	h-vacuum pump has cuate the working t a rate of about ormance. With a aseous helium didently most of the m. Orig. art. ha	0.01 mm ³ /sec total capacity not increase helium was	
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SOV/106-58-10-7/13

AUTHOR:

TITLE:

Bayeya N.N.

Investigation of the Mean Power of a Multi-Channel Signal in Symmetrical-Cable Apparatus (Issledovanie sredney

moshchnosti mnogokanalinogo signala apparatury

simmetrichnogo kabelya)

PERIODICAL: Elektrosvyaz', 1958, Nr 10, pp 47 - 53 (USSR)

ABSTRACT: At the present time, a wide investigation into the operating conditions of high-frequency telephone and telegraph systems is being undertaken by the TsNIIS together with LEIS and NIITS in which the author of this article is participating. One of the problems in this large undertaking is determination of the mean power of signals in a group path. the subject of this article. The power transmitted along a group path is characterised by the instantaneous and mean values. This power is fundamental for determination of the non-linear interference and the mean power transmitted along a single telephone channel. The latter mitted along a single telephone channel. value is also fundamental for determination of the level

Card 1/3

of cross-talk interference in multi-pair cables. determination of the mean power of a multi-channel signal

CIA-RDP86-00513R000204020019-3"

APPROVED FOR RELEASE: 06/06/2000

sov/106-58-10-7/13

Investigation of the Kean Power of a Multi-Channel Signal in Symmetrical Cable Apparatus

two methods can be used. In the first the mean power of a single channel is determined and then the mean power of the multi-channel signal is found analytically. In the second method, the mean power of the multi-channel signal is measured directly and then the mean power of a single channel found analytically. In this investigation, the Measurements were produced second method was used. using a thermo-ammeter designed to measure small values of alternating current. The apparatus consisted of three thermocouples with different ranges: 0 - 2 mA; 0 - 10 mA; 0 - 50 mA; and a d c indicator. The integration time of the apparatus was 2.5 seconds. The apparatus was connected in series with the output of the transmitter amplifier or at the output of the receiver amplifier and consequently measured the current flowing at the outputs of the given amplifiers. In all eight different systems of types K-12 and K-24 were investigated. The mean power Card 2/3 transmitted along the group path was determined using all the channels for telephonic conversations: the effects of

SOV/106-58-10-7/13 Investigation of the Mean Power of a Multi-Channel Signal in Symmetrical-Cable Apparatus

the method of exploiting the channels and of the presence of channels used for tone-telegraphy, were investigated. To enable the various factors to be compared a series of trials was made varying one factor only at a time, the remaining factors (level of ringing currents, carrier frequencies, noise etc) being held constant as far as possible. Maximum, mean and minimum readings of the indicator were noted every 10 seconds. The characteristic time-change of the minimum and maximum values of the level of the mean power at the output of a group amplifier is shown in Fig 2. The curves of the distribution of the levels of the mean total power for the receiver group amplifiers are shown in Fig 3. The curves for the transmitter amplifiers are similar. The method of working of the channels does not have any substantial effect on the mean power. There are 3 figures and 6 references (4 of which are Sevies. SUBMITTED: April 22, 1958

Card 3/3

6,7000 der 3702

27376 \$/194/61/000/003/042/046 D201/D306

AUTHOR:

Bayeva, N.N.

TITLE:

Addition of noise generated by the main line symmetrical cable transients for a small number of influencing sectors and a small number of systems

PERIODICAL:

Referativnyy zhurnal. Avtomatika i radioelektronika, no. 3, 1961, 10, abstract 3 175 (Tr. uchebn. in-tov svyazi, M-vo svyazi SSSR, no. 1, 1960, 115-124)

TEXT: A method of determining the power of transient noises (NW (PSh)) in multi-channel table communication lines is considered. Determination of noise amplitude probability distribution is, in this case, made difficult because of the fact that all transient noise harmonics have different amplitudes. The approximate method of evaluation is as follows: The whole aggregate of transient voltages is split into groups in such a manner that in every group the amplitudes of harmonics do not differ by more than 7%. Next for a

Card 1/2

Addition of noise...

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given probability the value of voltages U_{res} is determined, this value exceeding by not more than a fraction, the voltage equal to the sum of amplitude added in the group. The averaged value of U_{res} permits determination of the power of noise of transients $W_{tr} = W_{po}$ exp (-2 In U_{res}), where W_{po} is the power in one telephony channel at the point of zero reference level. Results are given of measuring noise of linear transients of the main line, consisting of 28 amplifying sectors with 9 systems operating in parallel K = 24. 1 reference. Abstracter's note: Complete translation Abstracter's note:

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Baeva, N. V. Completely factorizable groups. Doklady Akad. Nauk SSSR (N.S.) 92, 877-880 (1933). (Russian) A group is said to be completely factorizable if each subgroup A of G has a complement D in G; i.e., there exists a subgroup D such that AD=G and $A\cap D=1$. P. Hall [J. London Math. Soc. 12, 201-204 (1937)] showed that finite completely factorizable groups are those which are subgroups of direct products of a finite number of groups of square-free order. Without proofs, the author states that, even in the infinite case, generalizing a result of Hall, (1) the commutator subgroup of a completely complemented

group is abelian; (2) G is locally abelian; (3) if G is a p-group it is elementary abelian; (4) G is, equivalently, the semi-direct product of a normal abelian subgroup A and of an abelian subgroup D, where both A and D split into direct products of cyclic groups of prime orders which, in the case of A, are normal subgroups of G. Further typical results are: (5) a locally normal group is completely factorizable if and only if it is a subgroup of a (possibly infinite) direct product of the type given by Hall, above. (6) Each group G possessing an ascending normal series with cyclic factors with non-repeating prime orders is completely factorizable. [See the following review.]

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